

International Journal papers

1991

- [P.1] A. Baschiroto, R. Alini, and R. Castello
"BiCMOS operational amplifier with precise and stable dc-gain for high-frequency switched-capacitor filters"
IEE Electronics Letters - 18th July 1991, Vol. 27, no. 15, pag. 1338-1340
- [P.2] A. Baschiroto, M. Cassis, P. Kirchlechner, F. Montecchi, G. Palmisano, and D. Rossi
"An analog BiCMOS integrated circuit for front-end RDS decoder"
IEEE Transactions on Consumer Electronics - Aug. 1991, pag. 585-591

1992

- [P.3] A. Baschiroto, R. Castello, and F. Montecchi
"Zero-placement technique for IIR switched-capacitor anti-aliasing decimators"
International Journal on Circuit Theory and Applications - Vol. 20, no. 1, Jan.-Feb. 1992, pag. 87-91
- [P.4] A. Baschiroto, R. Castello, and F. Montecchi
"IIR double-sampled switched-capacitor decimators for high-frequency applications"
IEEE Transactions on Circuits and Systems - vol. CAS-I 39, no. 4, April 1992, pag. 300-304
- [P.5] A. Baschiroto, R. Castello, and F. Montecchi
"Finite gain compensated double-sampled switched-capacitor integrator for high-Q bandpass filters"
IEEE Transactions on Circuits and Systems - Vol. CAS-I 39, no. 6, June 1992, pag. 425-431
- [P.6] A. Baschiroto, R. Castello, A. Gola, G. Pessina, P.G. Rancoita, M. Rattaggi, G. Terzi
"Slew-rate enhancement techniques to be used with silicon calorimeters charge sensitive preamplifiers"
IEEE Electronics Letters - 22nd October 1992, Vol. 28, pag. 2109-2110
- [P.7] R. Alini, A. Baschiroto, and R. Castello
"Tunable BiCMOS continuous-time filters for high-frequency applications"
IEEE Journal of Solid-State Circuits, Vol. 27, no. 12, Dec. 92, pag. 1905-1915

appears also in

"BiCMOS integrated circuit design", edited by M. I. Elmasry, IEEE Press, pag. 442-452

1993

- [P.8] R. Castello, and A. Baschiroto
"Analog blocks in telecommunications systems"
Annales des Telecommunications - Vol. 48 - n. 7-8 - July-August 1993 - pag. 413-419
- [P.9] A. Baschiroto, M. Bosetti, R. Castello, A. Gola, P.G. Rancoita, M. Rattaggi, M. Redaelli, A. Seidman and G. Terzi
"Development of a new monolithic fast preamplifier to be used in LHC radiation environment"
3rd Intern. Conf. on Advanced Technology and Particle Physics - Como, Villa Olmo '92 - Nucl. Physics B (Proc. Suppl.) 32 - 1993 - pag. 535-539

1994

- [P.10] A. Baschiroto, R. Castello, and F. Montecchi
"Design strategy for low-voltage SC circuits"
IEE Electronics Letters - 3rd March 1994, Vol. 30, pag. 378-379
- [P.11] A. Baschiroto, R. Castello, G. Pessina, P.G. Rancoita, M. Rattaggi, A. Gola, M. Redaelli
"Monolithic bandpass RC-CR filter for high-energy physics experiments"
IEE Electronics Letters - 28th April 1994, Vol. 30, no. 9, pag. 691-692

[P.12] M. Segato, A. Baschiroto, G. Biaggioni, G. Cortelazzo, and E. Malavasi
"SC realization of anti-aliasing CCIR-601 video filters"
IEEE Trans. on Consumer Electronics - August 1994, Vol. 40, no. 3 - pag. 274-281

[P.13] A. Baschiroto, F. Rezzi, R.Castello
"A low-voltage balanced transconductor with high input common-mode rejection"
IEE Electronics Letters - 29th September 1994, Vol. 30, no. 20 - pag. 1669-1671

1995

[P.14] G. Cortelazzo, E. Malavasi, M. Segato, and A. Baschiroto
"Delay-shared N-path structures for video-rate SC FIR filters"
IEEE Trans. on Circuits and Systems for Video Technology - April 1995, Vol. 5, no. 2 - pag. 109- 118

[P.15] C. Samori, A. Baschiroto, V. Liberali
"Two-path structure for high-performance Sigma-Delta modulators"
IEE Electronics Letters - 14th September 1995, Vol. 31, no. 19 - pag. 1624-1625

[P.16] A. Baschiroto, R. Castello, A. Gola, G. Pessina, P. G. Rancoita, M. Rattaggi, M. Redaelli, A. Seidman
"Radiation damage investigation for the design of a hardened fast bipolar monolithic charge sensitive preamplifier"
Nucl. Instrumentation and Methods in Physics Research - Sec. A - 362 (1995) 466-471

[P.17] A. Baschiroto, R. Castello, A. Gola, G. Pessina, P. G. Rancoita, M. Redaelli, A. Seidman, M. Volpi
"Design and implementation of a monolithic bipolar read-out system"
4rd Intern. Conf. on Advanced Technology and Particle Physics - Como, Villa Olmo '94 - Nucl. Physics B (Proc. Suppl.) - 44 (1995) pag. 617-620

[P.18] A. Baschiroto, R. Castello, A. Gola, G. Pessina, P. G. Rancoita, M. Rattaggi, M. Redaelli, A. Seidman
"Radiation damage investigation for the design of a hardened fast bipolar charge sensitive preamplifier"
4rd Intern. Conf. on Advanced Technology and Particle Physics - Como, Villa Olmo '94 - Nucl. Physics B (Proc. Suppl.) - 44 (1995) pag. 621-627

[P.19] F. Rezzi, A. Baschiroto, and R. Castello
"3V 12-55MHz BiCMOS pseudo-differential continuous-time filter"
IEEE Transaction on Circuits and Systems - II - Nov. 1995 - pag. 896-903

[P.20] R. Castello, F. Montecchi, F. Rezzi, and A. Baschiroto
"Low-voltage analog filter"
IEEE Transaction on Circuits and Systems - II - Nov. 1995 - pag. 827-840

[P.21] A. Baschiroto, F. Montecchi and R. Castello
"A 15MHz 20mW BiCMOS switched-capacitor biquad operating with 150Ms/s sampling frequency"
IEEE Journal of Solid State Circuits - Dec. 1995 - pag. 1357-1366

1996

[P.22] A. Baschiroto
"Considerations for the design of switched-capacitor circuits using precise-gain operational amplifiers"
IEEE Transaction on Circuits and Systems - II - vol. 43, no. 12 - Dec. 1996 - pag. 827-832

[P.23] A. Baschiroto, R. Castello, A. Gola, C. Onado, G. Pessina, P. G. Rancoita, M. Redaelli, A. Seidman
"Radiation damage study of a fast bipolar monolithic charge sensitive preamplifier"
Nucl. Instrumentation and Methods in Physics Research - Sec. B - 114 (1996) 327-331

1997

[P.24] A. Baschiroto, R. Castello, C. Onado, G. Pessina, P. G. Rancoita, A. Seidman
"Effects of radiation fluences up to 10^{16} n/cm² and gamma doses up to 5Mrad on monolithic fast preamplifier"
Nucl. Instrumentation and Methods in Physics Research - Sec. B - 122 (1997) 73-78

- [P.25] A. Baschiroto, G. Cesura, F. Rezzi, F. Svelto
"Low-power BiCMOS continuous-time shaping filter"
IEEE Transaction on Circuits and Systems - II - vol. 44, no. 5 - May 1997 - pag. 404-406
- [P.26] A. Baschiroto, G. Brasca, F. Montecchi, F. Stefani
"A low-power BiCMOS switched-capacitor filter for audio codec applications"
IEEE Journ. on Solid State Circuits - July 1997 - pag. 1127-1131
- [P.27] L. Schillaci, A. Baschiroto, R. Castello
"A 3V 5.4mW BiCMOS Track&Hold circuit with sampling frequency up to 150MHz"
IEEE Journ. on Solid State Circuits - July 1997 - pag. 926-932
- [P.28] A. Nagari, A. Baschiroto, F. Montecchi, R. Castello
"A 10.7 MHz BiCMOS high-Q double-sampled SC bandpass filter"
IEEE Journal of Solid State Circuits - October 1997 - pag. 1491-1498
- [P.29] A. Baschiroto, R. Castello
"A 1V 1.8MHz CMOS Switched-opamp SC filter with rail-to-rail output swing"
IEEE Journal of Solid State Circuits - December 1997 - pag. 1979-1986

1998

- [P.30] A. Baschiroto, G. Boella, R. Castello, G. Frattini, G. Pessina, P.G. Rancoita
"A 3ns-resolution CMOS low-power time-to-voltage converter"
IEE Electronics Letters - 2nd April 1998, Vol. 34, no. 7 - pag. 614-615
- [P.31] A. Baschiroto, G. Boella, R. Castello, G. Pessina, E. Pistolesi, and P.G. Rancoita
"A low power dissipation front-end read-out for space instrumentation"
Nuclear Physics B (Pric. Suppl.) 61B (1998) pag. 520-525
- [P.32] A. Baschiroto, R. Castello, G. Pessina, P.G. Rancoita, A. Seidman
"A versatile high-speed bipolar charge sensitive preamplifier for calorimeter applications"
IEEE Journal of Solid State Circuits - April 1998 - pag. 635-639
- [P.33] A. Baschiroto, R. Castello, G.P. Montagna
"An active series switch for switched-opamp circuits"
IEE Electronics Letters - 9th July 1998, Vol. 34, no. 14 - pag. 1365-1366

1999

- [P.34] A. Baschiroto, G. Boella, I. Cappelluti, R. Castello, M. Cermesoni, A. Gola, G. Pessina, E. Pistolesi, P.G. Rancoita, A. Seidman
"A radiation hard bipolar monolithic front-end readout"
Nuclear Instruments and Methods in Physics Research B 155 (1999), pag. 120-131
- [P.35] A. Baschiroto, and R. Castello
"Low-voltage fully-differential switched-opamp bandpass $\Sigma\Delta$ modulator"
IEE Proceedings - Circuits, systems and devices - Vol. 146 - no. 5 - Oct. 1999, pag. 249-253
- [P.36] A. Gerosa, G.M. Cortelazzo, A. Baschiroto, and E. Malavasi
"2D Video Rate SC FIR Filters based on Analog RAMs"
IEEE Transactions on Circ. and Syst. - Part II - Vol. 46, No. 11 - Nov. 1999, pag. 1348-1360

2000

- [P.37] L. Lentola, G.M. Cortelazzo, E. Malavasi, and A. Baschiroto
"Design of SC filters for video applications"
IEEE Transaction on Circuits and Systems for Video Technology - Vol. 16 - no. 1 - Feb. 2000 - pag. 14-22
- [P.38] A. Baschiroto
"A four-channel transimpedance amplifier for Compact Disk front-end"
IEEE Transactions on Consumer Electronics - Feb. 2000 - pag. 146-153

- [P.39] A. Baschirotto, G. Brasca, V. Colonna, P. Cusinato, G. Gandolfi
"A Compact-Disc analog-to-digital front-end in BiCMOS technology"
IEEE Transactions on Consumer Electronics - May 2000 - pag. 343-352
- [P.40] F. Severi, A. Baschirotto, and R. Castello
"A 200Ms/s 10mW switched-capacitor filter in a 0.5 μ m CMOS technology "
IEEE Journal of Solid State Circuits - August 2000 - pag. 1215-1219

2001

- [P.41] D. Tonietto, P. Cusinato, F. Stefani, and A. Baschirotto
"A 3.3V CMOS 10.7MHz 6th-order bandpass $\Sigma\Delta$ modulator with 74dB dynamic range"
IEEE Journal of Solid State Circuits - April 2001 - pp. 629-638
- [P.42] V. Colonna, G. Gandolfi, A. Baschirotto
"A 3.3V CMOS laser driver system"
Microelectronics Journal - no. 32 (2001) - pp. 253-263
- [P.43] A. Baschirotto, G. Bollati, A. Fassina, F. Montecchi, F. Stefani
"A high-selectivity switched-capacitor bandpass filter"
IEEE Transactions on Circ. and Syst. - Part II - vol. 48, no. 4, April 2001, pp. 351-358
- [P.44] A. Baschirotto
"A low-voltage Sample&Hold circuit in standard CMOS technology operating at 40Ms/s"
IEEE Transactions on Circ. and Syst. - Part II - vol. 48, no. 4, April 2001, pp. 394-399
- [P.45] R. Cappelletti, and A. Baschirotto
"A Power Line FSK transceiver with reduced power consumption",
IEEE Transactions on Consumer Electronics - vol. 47, no. 2, May 2001, pp. 207-213
- [P.46] G. Ferri, A. Baschirotto
"Low-voltage rail-to-rail switched buffer topologies"
International Journal on Circuit Theory and Applications - July-August 2001, vol. 29, no. 4 - pp. 413-422
- [P.47] P. Cusinato, F. Stefani, A. Baschirotto
"Reducing the Power Consumption in High-Speed $\Sigma\Delta$ Bandpass Modulators"
IEEE Transactions on Circ. and Syst. - Part II - Vol. 48, no. 10, October 2001, pp. 952-960

2002

- [P.48] M. Annovazzi, V. Colonna, G. Gandolfi, F. Stefani, A. Baschirotto
"A low-power 98dB multibit audio DAC in a standard 3.3V 0.35 μ m CMOS technology"
IEEE Journal of Solid State Circuits - Vol. 37, no. 7, July 2002, pp. 825-834

2003

- [P.49] P. Malcovati, S. Brigati, F. Francesconi, F. Maloberti, P. Cusinato, A. Baschirotto
"Behavioral Modeling of Switched-Capacitor Sigma-Delta Modulators"
IEEE Transactions on Circuits and Systems - Part I - March 2003 - pp. 352-364
- [P.50] A. Gola, F. Pasolini, E. Chiesa, E. Lasalandra, M. Tronconi, T. Ungaretti, A. Baschirotto, and R. Oboe
"A 2.5 rad/sec² Resolution Digital Output MEMS-Based Rotational Accelerometer for HDD Applications"
IEEE Transactions on Magnetics - March 2003 - pp. 915-919
- [P.51] G. Boarin, V. Colonna, G. Gandolfi, F. Stefani, A. Baschirotto
"90dB-DR 3.3V CMOS Single-Ended-to-Fully-Differential and Fully-Differential-to-Single-Ended Amplifiers for Audio Applications"
International Journal on Circuit Theory and Applications - vol. 31 - May-June 2003 - pp. 315-328
- [P.52] A. Gola, E. Chiesa, E. Lasalandra, F. Pasolini, M. Tronconi, T. Ungaretti, A. Baschirotto
"Interface for MEMS-based rotational accelerometer for HDD applications with 2.5rad/sec² resolution and digital output"
IEEE Journal of Sensors - August 2003 - pp. 383-392

- [P.53] A. Baschirotto, A.Gola, E. Chiesa, E. Lasalandra, F. Pasolini, M. Tronconi, T. Ungaretti
"A 1-g Dual-Axis Linear Accelerometer in a Standard 0.5- μ m CMOS Technology for High-Sensitivity Applications"
IEEE Journal of Solid-State Circuits - July 2003 - pp. 1292-1297
- [P.54] G.Gramegna, G. Montagna, I.Bietti, M.Franciotta, A.Baschirotto, G. Abboto, R.Pelleriti, M.Paparo, R. Castello
"A 35-mW - 3.6 mm² fully integrated 0.18 μ m CMOS GPS Radio"
IEEE Journal of Solid-State Circuits - July 2003 - pp. 1163-1171
- [P.55] L. Lentola, A. Mozzi, A. Neviani, and A.Baschirotto
"A 1 μ A Front-End for Pacemaker Atrial Sensing Channels with Early Sensing Capability"
IEEE Transactions on Circuits and Systems - Part II - August 2003 - pp. 397-403
- [P.56] P. Cusinato, F. Pasolini, F. Stefani, A. Baschirotto
"Digital Technique for Instability Detection and Saturation Recovery in High-Order SC Sigma-Delta Modulators"
Analog Integrated Circuits and Signal Processing, Kluwer Publisher - July-August 2003, pp. 7-19.
- [P.57] S. D'Amico, and A. Baschirotto
"A compact high-frequency low-power continuous-time Gm-C biquad cell"
IEE Electronics Letters - May, 29th, 2003 - pp. 821-822

2004

- [P.58] G. Gandolfi, V. Colonna, M. Annovazzi, F. Stefani, A.Baschirotto
"Self-Tuning Algorithms for High-Performance Bandpass Switched-capacitor $\Sigma\Delta$ Modulators"
IEEE Transactions on Circuits and Systems - Part I - January 2004 - pp. 170-174
- [P.59] P. Cusinato, F. Stefani, and A. Baschirotto
"A 6th-order 75dB-DR 10.7MHz 3.3V CMOS Bandpass $\Sigma\Delta$ Modulator sampled at 37.05MHz "
International Journal on Circuit Theory and Application – 2004, 32, 209–222
- [P.60] A. Baschirotto, and P. Malcovati
"Technology-Driven Alternatives for Smart Sensor Interfaces"
H. Baltes, G. Fedder and J. Korvink, ed., Sensors Update, Wiley - VCH, Weinheim, Germany, Vol. 13, pp. 45-81, 2003
- [P.61] A. Baschirotto, S. Rusu
"Introduction to the Special Issue"
IEEE Journal of Solid-State Circuits – July 2004 – pp. 991 - 994
- [P.62] M. Sala, F. Salidu, F. Stefani, C. Kutschenreiter, and A. Baschirotto
"Design Considerations and Implementation of a DSP-based Car-Radio IF Processor"
IEEE Journal of Solid-State Circuits – July 2004 – pp. 1110-1118
- [P.63] V. Colonna, G. Gandolfi, F. Stefani, A.Baschirotto
"A 10.7MHz, Self-Calibrated, Switched-Capacitor Based, Multibit 2nd-Order Bandpass $\Sigma\Delta$ Modulator with On-Chip Switched-Buffer "
IEEE Journal of Solid-State Circuits – Aug. 2004 – pp. 1341-1346

2005

- [P.64] V. Colonna, M. Annovazzi, G. Boarin, G. Gandolfi, F. Stefani, A. Baschirotto
"A 0.22mm² 7.25mW per-channel audio stereo-DAC with 97dB-DR and 39dB-SNR_{out}"
IEEE Journal of Solid State Circuits – July 2005 – pp. 1491- 1498
- [P.65] M Grassi, P. Malcovati, A. Baschirotto
"A high-precision wide-range front-end for resistive gas sensors arrays"
Sensors and Actuators B: Chemical (special issue for Eurosensors XVIII), B 111–112 (2005) 281–285, Elsevier
- [P.66] S. D'Amico, A. Baschirotto
"Active-Gm-RC Continuous-Time Biquadratic Cells"
Analog Integrated Circuits and Signal Processing, Kluwer Academic Publishers, Analog Integrated Circuits and Signal Processing, 45, Nov. 2005, pp. 281–294

- [P.67] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi and G. Venchi,
"Design and Characterization of a Family of Fluxgate Magnetic Sensors in PCB Technology"
in G. Di Natale, A. D'Amico, G. Martinelli, M. C. Carotta and V. Guidi, ed., *Sensors and Microsystems*,
World Scientific, Singapore, pp. 262-266, 2005.

2006

- [P.68] A. Baschirotto, A. Cabrini, E. Dallago, P. Malcovati, M. Marchesi, G. Venchi
"Development and analysis of a PCB Vector 2-D Magnetic Field Sensor System for Electronic Compasses "
IEEE Sensors Journal, Vol. 6, No. 2, April 2006, pp. 365-371
- [P.69] S. D'Amico, V. Giannini, A. Baschirotto
"A low-power reconfigurable analog filter for UMTS/WLAN receivers"
Analog Integrated Circuits and Signal Processing, Kluwer Academic Publishers, 46, Jan. 2006, pp. 65–72
- [P.70] A. Baschirotto, F. Campi, R. Castello, G. Cesura, R. Guerrieri, L. Lavagno, A. Lodi, P. Malcovati, M. Toma,
"Baseband analog front-end and digital back-end for reconfigurable multi-standard terminals"
IEEE Circuits and Systems Magazine, Volume 6, Issue 1, First Quarter 2006, pp. 8 – 28
- [P.71] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi, G. Venchi
"Development and comparative analysis of fluxgate magnetic sensor structures in PCB technology"
IEEE Transactions on Magnetics, June 2006, pp. 1670 - 1680
- [P.72] S. D'Amico, V. Giannini, A. Baschirotto
"A 4th order Active-gm-RC Reconfigurable (UMTS/WLAN) Filter"
IEEE Journal of Solid State Circuits – Vol. 41- No. 7 - July 2006 – pp. 1630-1637
- [P.73] N. Ghittori, A. Vigna, P. Malcovati, S. D'Amico, A. Baschirotto
"1.2-V Low-Power Multi-Mode DAC+Filter Blocks for Reconfigurable (WLAN/UMTS, WLAN/Bluetooth) Transmitters"
IEEE Journal of Solid State Circuits – Sept. 2006 – pp. 1970-1982
- [P.74] N. Ghittori, A. Vigna, P. Malcovati, S. D'Amico, A. Baschirotto
"A 1.2V, 30.4dBm OIP3 Reconfigurable Analog Baseband Channel for UMTS/WLAN Transmitters"
IEEE Transactions on Circuits and Systems-I: Fundamental Theory and Applications – October 2006 – pp 2125-2131
- [P.75] A. Baschirotto, F. Borghetti, E. Dallago, P. Malcovati, M. Marchesi, E. Melissano, P. Siciliano, G. Venchi
"Fluxgate magnetic sensor and front-end circuitry in an integrated microsystem"
Sensors and Actuators A: Physical, Volume 132, Issue 1, 8 November 2006, pp 90-97
- [P.76] S. D'Amico, M. Conta, A. Baschirotto
"A 4.1mW 10MHz 4th-order source-follower-based continuous-time filter with 79dB-DR"
IEEE Journal of Solid State Circuits – Dec. 2006 – pp. 2713-2719

2007

- [P.77] C. Falconi, E. Martinelli, C. Di Natale, A. D'Amico, F. Maloberti, P. Malcovati, A. Baschirotto, V. Stornelli and G. Ferri
"Electronic interfaces"
Sensors and Actuators B: Chemical, Volume 121, Issue 1 , 30 January 2007, pp 295-329
- [P.78] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi, G. Venchi
"A Fluxgate Magnetic Sensor: From PCB to Micro-Integrated Technology"
IEEE Transactions on Instrumentation and Measurement, Volume 56, Issue 1, Feb. 2007, pp. 25 - 31
- [P.79] F. Corsi, G. Matarrese, C. Marzocca, A. Dragone, A. Baschirotto, S. D'Amico
"Tuning of High-Speed Telecommunication Filters, via I/O Cross-Correlation Evaluation"
IEEE Transactions on Circuits and Systems I: Fundamental Theory and Applications, Volume 54, Issue 2, Feb. 2007, pp. 329 – 337

- [P.80] M. Grassi, P. Malcovati, A. Baschirotto
"A 160-dB Equivalent Dynamic Range Auto-Scaling Interface for Resistive Gas Sensors Arrays"
IEEE Journal of Solid-State Circuits, Volume 42, Issue 3, March 2007, pp. 518 – 528
- [P.81] D. Stoppa, M. Vatteroni, D. Covi, A. Baschirotto, A. Sartori, and A. Simoni
"A 120-dB Dynamic Range CMOS Image Sensor With Programmable Power Responsivity"
IEEE Journal of Solid-State Circuits– July 2007 – pp. 1555-1563
- [P.82] V. Giannini, J. Craninckx, S. D'Amico, and A. Baschirotto
"Flexible Baseband Analog Circuits for Software-Defined Radio Front-Ends"
IEEE Journal of Solid-State Circuits – July 2007 – pp. 1501-1512
- [P.83] M. Grassi, P. Malcovati, and A. Baschirotto
"A 141-dB Dynamic Range CMOS Gas-Sensor Interface Circuit Without Calibration With 16-Bit Digital Output Word"
IEEE Journal of Solid-State Circuits – July 2007 – pp. 1543-1554
- [P.84] J. Ryckaert, M. Verhelst, M. Badaroglu, S. D'Amico, V. De Heyn, C. Desset, P. Nuzzo, B. Van Poucke, P. Wambacq, A. Baschirotto, W. Dehaene, and G. Van der Plas
"A CMOS Ultra-Wideband Receiver for Low Data-Rate Communication"
IEEE Journal of Solid-State Circuits – Nov. 2007, pp. 2515 - 2527

2008

- [P.85] L. Picolli, A. Rossini, P. Malcovati, F. Maloberti, F. Borghetti, and A. Baschirotto
"A Clock-Less 10-bit Pipeline-Like A/D Converter for Self-Triggered Sensors"
IEEE Journal of Solid-State Circuits – Feb. 2008, pp. 312-320
- [P.86] A. Baschirotto, S. Capone, A. D'Amico, C. Di Natale, V. Ferragina, G. Ferri, L. Francioso, M. Grassi, N. Guerrini, P. Malcovati, E. Martinelli and P. Siciliano,
"A Portable Integrated Wide-Range Gas Sensing System with Smart A/D Front-End",
Sensors and Actuators B, vol. 130, pp. 164-174, March 2008.
- [P.87] S. D'Amico, A. Baschirotto, M. De Matteis, N. Ghittori, A. Vigna, P. Malcovati
"A CMOS 5nV/ $\sqrt{\text{Hz}}$ 74-dB-Gain-Range 82-dB-DR Multistandard Baseband Chain for Bluetooth, UMTS, and WLAN"
IEEE Journal of Solid-State Circuits, July 2008 – pp. 1534 – 1541
- [P.88] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi, E. Melissano, M. Morelli, P. Siciliano and G. Venchi,
"An Integrated Micro-Fluxgate Magnetic Sensor with Front-End Circuitry",
IEEE Transactions on Instrumentation and Measurement, 2009 Issue no. 9, pp. 3269-3275.
- [P.89] M. Grassi, P. Malcovati, L. Francioso, P. Siciliano and A. Baschirotto,
"Integrated Interface Circuit with Multiplexed Input and Digital Output for a 5x5 SnO₂ Thick Film Gas-Sensor Matrix",
Sensors and Actuators B, vol. 132, pp. 568-575, June 2008.
- [P.90] M. Grassi, P. Malcovati, G. De Iaco and A. Baschirotto,
"An Integrated Wide-Range Resistance-to-Time Converter with Decoupled Oscillator "
in A. G Mignani, R. Falciai, C. Di Natale and A. D'Amico, ed., Sensors and Microsystems, World Scientific, Singapore, pp. 637-642, 2008.
- [P.91] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi and G. Venchi,
"Micro-Integrated Double Axis Planar Fluxgate"
in A. G Mignani, R. Falciai, C. Di Natale and A. D'Amico, ed., Sensors and Microsystems, World Scientific, Singapore, pp. 483-487, 2008.
- [P.92] A. Baschirotto, E. Melissano, P. Siciliano, E. Dallago, P. Malcovati, M. Marchesi and G. Venchi,
"A 2-D Planar Micro-Fluxgate with Sputtered Core"
in P. Siciliano, S. Capone, C. Di Natale and A. D'Amico, ed., Sensors and Microsystems, World Scientific, Singapore, pp. 127-131, 2008.
- [P.93] M. Grassi, P. Malcovati, S. Capone, L. Francioso, P. Siciliano and A. Baschirotto,
"Gas Sensing System Consisting in MOX-Based Microsensors Interfaced to a Novel Integrated 5-Decade Dynamic Range Front-End"
in P. Siciliano, S. Capone, C. Di Natale and A. D'Amico, ed., Sensors and Microsystems, World Scientific, Singapore, pp. 272-277, 2008.

2009

- [P.94] A. Lombardi, M. Grassi, L. Bruno, P. Malcovati and A. Baschirotto,
"An Integrated Gas-Sensing Interface Circuit with Embedded Temperature Control Loop for SnO₂ Sensors",
in C. Di Natale, A. D'Amico, E. Martinelli and R. Paolesse, ed., Sensors and Microsystems, World Scientific, Singapore, pp. 498-505, 2009.
- [P.95] N. Ghittori, A. Vigna, P. Malcovati, S. D'Amico and A. Baschirotto,
"An IEEE 802.11 and 802.16 WLAN Wireless Transmitter Baseband Architecture with a 1.2-V, 600-MS/s, 2.4-mW DAC",
Analog Integrated Circuits and Signal Processing, vol. 59, pp. 231-242, June 2009.
- [P.96] S. D'Amico, M. De Matteis, **A. Baschirotto**
"A 6.4 mW, 4.9 nV/ $\sqrt{\text{Hz}}$, 24 dBm IIP3 VGA for multi-standard (WLAN, UMTS, and Bluetooth) ..."
Analog Integrated Circuits and Signal Processing, 2009 - Springer, pp. 1-7
- [P.97] R. Perrino, A. Baschirotto, G. Chiodini, P. Creti, S. D'Amico, M. De Matteis, F. Grancagnolo, M. Panareo, S. Spagnolo, G. Tassielli
"Cluster counting drift chamber as high precision tracker for ILC experiments"
Nuclear Instruments and Methods in Physics Research A 598 (2009) 98–101
- [P.98] A. Baschirotto, E. Dallago, P. Malcovati, M. Marchesi, E. Melissano, M. Morelli, P. Siciliano, and G. Venchi
"An Integrated Micro-Fluxgate Magnetic Sensor With Front-End Circuitry"
IEEE Transactions on Instrumentation and Measurement, vol. 58 no. 9, September 2009, pp. 3269-3275
- [P.99] M. De Matteis, S. D'Amico, and A. Baschirotto
"A 0.55 V 60 dB-DR Fourth-Order Analog Baseband Filter"
IEEE Journal of Solid State Circuits, vol. 44, no. 9, September 2009, pp. 2525-2534
- [P.100] A. Lombardi, M. Grassi, P. Malcovati, S. Capone, L. Francioso, P. Siciliano and A. Baschirotto
"A CMOS Integrated Interface Circuit for Metal-Oxide Gas Sensors"
Sensors and Actuators B, vol. 142, pp. 82-89, October 2009.

2010

- [P.101] A. Baschirotto, E. Dallago, M. Ferri, P. Malcovati, A. Rossini and G. Venchi
"A 2D Micro-Fluxgate Earth Magnetic Field Measurement Systems with Fully Automated Acquisition Setup"
Measurement, vol. 43, pp. 46-53, January 2010.
- [P.102] P. Malcovati, L. Picolli, L. Crespi, F. Chaahoub and A. Baschirotto
"A 90-nm CMOS, 8-Bit Pipeline ADC with 60-MHz Bandwidth and 125-MS/s or 250-MS/s Sampling Frequency"
Analog Integrated Circuits and Signal Processing, vol. 64, pp. 159-172, August 2010
- [P.103] S. D'Amico, Cocciolo G., M. De Matteis, A. Baschirotto
"A 6.9mA 5bits 90nm 1Gs/s ADC without calibration"
Microelectronics Journal (2010), vol.42, pp. 325-329.

2011

- [P.104] S.A. Jawed, D. Cattin, N. Massari, M. Gottardi, A. Baschirotto
"A 1.8 V 828 μ W 80 dB digital MEMS microphone"
Analog Integrated Circuits and Signal Processing – Springer Journal, 2011, No. 3, pp. 395-405
- [P.105] V. Chironi, B. Debaillie, A. Baschirotto, J. Craninckx, and M. Ingels
"Direct Digital-RF Amplitude Modulator in CMOS 90nm",
Analog Integrated Circuits and Signal Processing – Springer Journal, 2011, No. 1, pp. 21-31

2012

- [P.106] A Baschiroto, G Cocciolo, M De Matteis, A Giachero, C Gotti, M Maino and G Pessina
“A fast and low noise charge sensitive preamplifier in 90 nm CMOS technology”
Journal of Instrumentation, January 2012
- [P.107] S. D’Amico, M. De Blasi, M. De Matteis, A. Baschiroto
“A 255 MHz Programmable Gain Amplifier and Low-Pass Filter for Ultra Low Power Impulse-Radio UWB Receivers”
IEEE Transactions on Circuits & Systems – Part I – February 2012, pp. 337-345
- [P.108] S.Cliquennois, A. Donida, P. Malcovati, A. Baschiroto, A. Nagari
“A 65-nm, 1-A Buck Converter With Multi-Function SAR-ADC-Based CCM/PSK Digital Control Loop”
IEEE Journal of Solid State Circuits, vol. 47, no. 7, July 2012, pp. 1546-1556
- [P.109] P. Visconti, S. D’Amico, A. Baschiroto, D. Romanello, P. Costantini, V. Ventura, and G. Cavalera
“Bidirectional Communication System on Power Line Integrated on Electronic Board for Driving of LED and HID Lamps”
Advances in Power Electronics, Volume 2012 (2012), Article ID 872383
- [P.110] V. Chironi, B. Debaillie, S. D’Amico, A. Baschiroto, J. Craninckx, and M. Ingels
“A Digitally Modulated Class-E Polar Amplifier in 90 nm CMOS”
IEEE Transactions on Circuits and Systems – I Regular Papers
- [P.111] M. De Blasi, P. Delizia, S. D’Amico and A. Baschiroto
“A 16 bit 20 kHz bandwidth discrete-time $\Sigma\Delta$ modulator with VCO-based quantizer “
Analog Integrated Circuits and Signal Processing, Volume 72, Number 3 (2012), 521-529
- [P.112] P. Malcovati, M. Grassi, A. Baschiroto
“Towards High-Dynamic Range CMOS Integrated Interface Circuits for Gas Sensors”
Sensors and Actuators B: Chemical, Available online 10 October 2012